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10/616,051	07/10/2003	Koji Omae	240067US90	9779	
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ALEXANDRI	A, VA 22314	ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) OMAE ET AL. 10/616,051 Office Action Summary Examiner Art Unit

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		DANIEL C. MURRAY	2443				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
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WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY Chelver Is LONGER, FROM THE MAILING D/ maisons of time may be available under the provisions of 37 CFR 1.1 SU(6) MONTHS from the mailing date of this communication. Su(6) MONTHS from the mailing date of this communication, specified above, the maximum statuto period or reply period for reply is specified above, the maximum statuto period or reply received by the Office later than three months after the mailing dot patient term datastiment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status							
1)[2]	Responsive to communication(s) filed on 23 Fe	ehruani 2009					
	This action is FINAL . 2b) This action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dicposit	ion of Claims	•					
· · _	Disposition of Claims						
,	Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	☐ Claim(s) is/are allowed. ☑ Claim(s) 1-20 is/are rejected.						
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
ا ا(ه	claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
	 Certified copies of the priority documents 	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicati	on No				
	3. Copies of the certified copies of the prior	•	ed in this National	Stage			
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen							
1) Notice	ce of References Cited (PTO-892)	4) Interview Summary					

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date. _____ 5) Notice of Informal Patent Application Paper No(s)/Mail Date _____ 6) Other: _____ U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

 This Action is in response to Applicant's amendment filed on 23FEB2009. Claims 1-20 are now pending in the present application. This Action is made FINAL.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A parent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order

for the examiner to consider the applicability of 35 U.S.C. 103(e) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 4. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okanoue (US Patent # 5,179,861) in view of Haas (US Patent # US 6,304,556 B1) and in further view of Iyer et al. (US Patent #US 7,058,706 B1).
- a) Consider claim 1, Okanoue clearly shows and discloses, a new node search method for searching for a service node for providing a service to a node (column 1 lines 54-63), in a communication system including a plurality of service nodes (figure 1, abstract, column 2 lines 18-24, column 3 lines 40-46) and the node, each of the service nodes and the mobile node having a node storage unit configured to store addresses of service nodes (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-60), the node search method comprising: transmitting a node search packet to search for the new service node from a search node (abstract, column 1 lines 64-67, column 2 lines 24-26), which searches for the new service node, to a search packet reception node having an address stored in the node storage unit of the search node (figure 4a, abstract, column 1 lines 28-31, column 4 lines 4-8 lines 48-56, column 5 lines 56-67); transmitting a node notice request packet from the search packet reception node to a peripheral node having an address stored in the node storage unit of the search packet reception node (figure 8, abstract, column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4 lines 4-13), the address of the peripheral node not being stored in the node storage unit of the search node (column 4 lines 4-13); returning a node notice packet from the search packet reception node to the search node, in response to the node search packet (abstract, column 1 line 67, column 2 lines 1-8 lines 29-35); transmitting the node notice packet from the peripheral node to the search node, in response to the

node notice request packet (figure 8, abstract, column 1 lines 58-67, column 2 lines 1-9 lines 18-35); detecting the new service node on based on the returned node notice packet from the peripheral node, by the search node (abstract, column 2 lines 5-17, lines 18-35); and updating the node storage unit of the search node based on the new service node detected by the search node (figure 7, column 6 lines 13-17 lines 21-32). However, Okanoue does not specifically disclose a mobile communication system or mobile nodes or transmitting data for investigating node information from the search node to the detected new service node, the data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected new service node.

Haas shows and discloses two network protocols, which are particularly suitable for selfreconfigurable communications networks, such as ad-hoc networks (mobile communication system)(abstract, column 1 lines 23-25 lines 66-67, column 8 lines 22-24). More particularly, the first protocol is instrumental in efficiently finding routes within a network, while the second protocol can be used to locate users (mobile nodes)(column 1 lines 23-25 lines 66-67, column 8 lines 22-24) in a network with rapidly changing topology.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Haas into the system of Okanoue for the purpose of mobility management (abstract, column 3 lines 47-51), efficiently finding routes within a network, and locating users in a network with rapidly changing topology (abstract, column1 lines 7-13). However, Okanoue as modified by Haas does not specifically disclose transmitting data for investigating node information from the search node to the detected new service node, the data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected new service node.

Iyer et al. show and disclose determining a dynamic hop count and latency between two nodes across a network in a computer environment and transmitting to the detected service node, by the search node, data for investigating node information concerning the detected service node, the data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected service node (abstract, column 1 lines 65-67, column 2 lines 1-5 lines 9-27).

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate the teachings of Iyer et al. into the system of Okanoue for the purpose of determining the number of hops and latency between two nodes.

b) Consider **claim 2**, Okanoue clearly shows and discloses, a node comprising: a node storage unit configured to store addresses of service nodes for providing a service to a node (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-60); a search packet creation unit configured to create a node search packet to search for a new service node (figure 4a, abstract, column 1 lines 64-67, column 2 lines 24-26, column 4 lines 48-56, column 5 lines 56-67); a communication unit configured to transmit the node search packet to a search packet reception node having an address stored in the node storage unit (figure 4a, abstract, column 1 lines 28-31, column 4 lines 4-8 lines 48-56, column 5 lines 56-67), to receive a node notice packet from the search packet reception node (figure 8, abstract column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4-13) and to receive the node notice packet from a peripheral node which receives a node notice request packet from the search packet reception node (figure 8, abstract, column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4 lines 4-13), an address of the peripheral node not being stored in the node storage unit (column 4 lines 4-13), a detection unit configured to detect the new service node based on the node notice packet returned from the peripheral node (abstract.

column 2 lines 5-17, lines 31-35); and an update unit configured to update the node storage unit based on the new service node detected by the detection unit (figure 7, column 6 lines 13-17 lines 21-32). However, Okanoue does not specifically disclose a mobile node or that the communication unit is configured to transmit, to the detected new service node, data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected new service node.

Haas shows and discloses two network protocols, which are particularly suitable for selfreconfigurable communications networks, such as ad-hoc networks. More particularly, the first protocol is instrumental in efficiently finding routes within a network, while the second protocol can be used to locate users (mobile nodes)(column 1 lines 23-25 lines 66-67, column 8 lines 22-24) in a network with rapidly changing topology.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Haas into the system of Okanoue for the purpose of mobility management (abstract, column 3 lines 47-51), efficiently finding routes within a network, and locating users in a network with rapidly changing topology (abstract, column1 lines 7-13). However, Okanoue as modified by Haas does not specifically disclose the communication unit is configured to transmit, to the detected new service node, data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected new service node.

Iyer et al. show and disclose determining a dynamic hop count and latency between two nodes across a network in a computer environment wherein the communication unit is configured to transmit, to the detected service node, data for investigating node information concerning the detected service node, the data for investigating node information including a request for a delay

value and a number of hops in a packet transmission between the search node and the detected service node (abstract, column 1 lines 65-67, column 2 lines 1-5 lines 9-27).

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate the teachings of Iyer et al. into the system of Okanoue for the purpose of determining the number of hops and latency between two nodes.

- c) Consider claim 3, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, further comprising a data creation unit configured to create the data for investigating node information detected by the detection unit, the data being transmitted to the detected new service node (column 6 lines 13-20), wherein the node storage unit is configured to store the node information (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-67, column 6 lines 13-17 lines 21-32), the communication unit is configured to transmit the data created by the data creation unit, and to receive response data returned in response to the data by the detected new service node (column 1 lines 23-25 lines 66-67, column 8 lines 22-24), and the update unit is configured to update the node storage unit based on the returned response data (figure 7, column 6 lines 13-17 lines 21-32).
- d) Consider claim 4, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, wherein node information concerning the new service node is included in the node notice packet, the node storage unit is configured to store the node information, and the update unit is configured to update the node storage unit based on the returned node notice packet (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-67, column 6 lines 13-17 lines 21-32).
- e) Consider claim 5, and as applied to claim 3 above, Okanoue as modified by Haas and as further modified by Iver et al. clearly show and disclose, the node of claim 3 or 4, wherein the

node storage unit is configured to store the addresses of the service nodes and the node information according to a predetermined criterion (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-60, column 6 lines 13-17 lines 21-32).

- f) Consider claim 6, and as applied to claim 4 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 4, further comprising: a determination unit configured to determine inter-node information between the search node and the peripheral node according to inter-node information between the search node and the search packet reception node and inter-node information between the search packet reception node and the peripheral node based on the node notice packet (column 2 lines 5-16 lines 31-35), wherein the update unit is configured to update the node storage unit based on the inter-node information between the search node and the peripheral node determined by the determination unit (figure 7, column 6 lines 13-17 lines 21-32).
- g) Consider claim 7, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, further comprising: a notice packet creation unit configured to create the node notice packet by accessing the node storage unit (figure 8, column 6 lines 36-58), wherein the communication unit is configured to transmit the node notice packet created by the notice packet creation unit (column 1 lines 23-25 lines 66-67, column 8 lines 22-24).
- h) Consider claim 8, and as applied to claim 7 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 7, wherein the notice packet creation unit is configured to create the node notice packet that is passed through the peripheral node (abstract, column 1 line 67, column 2 lines 1-5 lines 32-35).

- i) Consider claim 9, and as applied to claim 7 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 7, wherein the notice packet creation unit is configured to create the node notice packet when the communication unit has received at least one of the node search packet, the node notice packet, and a node notice request packet for requesting return of the node notice packet (figure 8, column 6 lines 36-58).
- j) Consider claim 10, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, further comprising a request packet creation unit configured to create the node notice request packet for requesting the peripheral node to return the node notice packet (figure 4a, column 5 lines 18-24, column 6 lines 1-20), wherein the communication unit is configured to transmit the node notice request packet created by the request packet creation unit (column 1 lines 23-25 lines 66-67, column 8 lines 22-24).
- k) Consider claim 11, and as applied to claim 10 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 10, wherein the request packet creation unit is configured to create the node notice request packet when the communication unit has received at least one of the node search packet, the node notice packet, or the node notice request packet (figure 8, column 6 lines 35-58).
- I) Consider claim 12, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, further comprising: a request packet creation unit configured to create a node registration request packet for requesting registration in the node storage unit of another service node (figure 7, column 6 lines 7-17), wherein the communication unit is configured to transmit the node registration request packet created by the request packet creation unit (column 1 lines 23-25 lines 66-67, column 8 lines 22-24).

- m) Consider claim 13, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, wherein the communication unit is configured to receive a node registration request packet for requesting registration in the node storage unit of another service node (column 1 lines 23-25 lines 66-67, column 8 lines 22-24), and the update unit is configured to update the node storage unit based on the node registration request packet (figure 7, column 6 lines 13-17, lines 21-23).
- n) Consider claim 14, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, However, Okanoue does not specifically disclose a selection criterion holding unit configured to hold a selection criterion for selecting a service node to be used; and a selection unit configured to access the node storage unit and select the service node to be used, based on the selection criterion held in the selection criterion holding unit.

Haas shows and discloses a selection criterion holding unit (memory) configured to hold a selection criterion for selecting a service node to be used (node location and route information); and a selection unit (processor) configured to access the node storage unit and select the service node to be used, based on the selection criterion held in the selection criterion holding unit (column 6 lines 58-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Haas into the system of Okanoue for the purpose of efficiently finding routes within a network, and locating users in a network with rapidly changing topology (abstract, column1 lines 7-13).

 Onsider claim 15, Okanoue clearly shows and discloses, a communication system comprising: a search node configured to search for a new service node for providing a service to a node by transmitting a node search packet in order to search for the new service node (abstract, column 1 lines 64-67, column 2 lines 24-26); a search packet reception node configured to receive the node search packet transmitted from the search node (figure 2, column 4 line 66 column 5 lines 1-2); and a peripheral node other than the search packet reception node (abstract, column 1 line 67, column 2 lines 1-5 lines 32-35), wherein the search node includes: a node storage unit configured to store addresses of service nodes (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-60); a search packet creation unit configured to create the node search packet to search for the new service node (figure 4a, abstract, column 1 lines 64-67, column 2 lines 24-26, column 4 lines 48-56, column 5 lines 56-67); a communication unit configured to transmit the node search packet to the search packet reception node (figure 2, column 4 line 66 column 5 lines 1-2) having an address stored in the node storage unit (figure 4a, abstract, column 1 lines 28-31, column 4 lines 4-8 lines 48-56, column 5 lines 56-67), to receive a node notice packet from the search packet reception node (figure 8, abstract column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4 lines 4-13), and to receive the node notice packet from a peripheral node which receives a node notice request packet from the search packet reception node (figure 8, abstract, column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4 lines 4-13), and address of the peripheral node not being stored in the node storage unit (column 4 lines 4-13); a detection unit configured to detect the new service node based on the node notice packet returned from the peripheral node (abstract, column 2 lines 5-17, lines 31-35); and an update unit configured to update the node storage unit based on the new service node detected by the detection unit (figure 7, column 6 lines 13-17 lines 21-32). However, Okanoue does not specifically disclose a mobile communication system or mobile nodes or that the communication unit is configured to transmit, to the new detected service node, data for investigating node information including a request for a delay value

and a number of hops in a packet transmission between the new search node and the detected service node.

Haas shows and discloses two network protocols, which are particularly suitable for self-reconfigurable communications networks, such as ad-hoc networks (mobile communication system) (abstract, column 1 lines 23-25 lines 66-67, column 8 lines 22-24). More particularly, the first protocol is instrumental in efficiently finding routes within a network, while the second protocol can be used to locate users (mobile nodes) (column 1 lines 23-25 lines 66-67, column 8 lines 22-24) in a network with rapidly changing topology.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Haas into the system of Okanoue for the purpose of mobility management (abstract, column 3 lines 47-51), efficiently finding routes within a network, and locating users in a network with rapidly changing topology (abstract, column1 lines 7-13). However, Okanoue as modified by Haas does not specifically disclose that the communication unit is configured to transmit, to the detected service node, data for investigating node information concerning the detected service node, the data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected service node.

Iyer et al. show and disclose determining a dynamic hop count and latency between two nodes across a network in a computer environment wherein the communication unit is configured to transmit, to the detected service node, data for investigating node information concerning the detected service node, the data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the detected service node (abstract, column 1 lines 65-67, column 2 lines 1-5 lines 9-27).

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate the teachings of Iyer et al. into the system of Okanoue for the purpose of determining the number of hops and latency between two nodes.

- p) Consider claim 17, and as applied to claim 1 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node search method of claim 1, wherein the updating step comprises updating the node storage unit to include an address of the new service node (figure 7, column 6 lines 13-17 lines 21-32).
- q) Consider claim 18, and as applied to claim 2 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the node of claim 2, wherein the update unit is configured to update the node storage unit to include an address of the new service node (figure 7, column 6 lines 13-17 lines 21-32).
- r) Consider claim 19, and as applied to claim 15 above, Okanoue as modified by Haas and as further modified by Iyer et al. clearly show and disclose, the mobile communication system of claim 15, wherein the update unit is configured to update the node storage unit to include an address of the new service node (figure 7, column 6 lines 13-17 lines 21-32).
- Claims 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okanoue (US Patent # 5,179,861) in view of Iyer et al. (US Patent #US 7,058,706 B1).
- a) Consider claim 16, Okanoue clearly shows and discloses, a computer-readable storage medium, including computer executable instructions, wherein the instructions, when executed by a processor, cause the processor to function as a node and to perform a method, comprising: storing addresses of service nodes for providing a service to a mobile node (figure 2, figure 7, column 1 lines 23-24 lines 27-31, column 4 lines 48-50, column 5 lines 56-60); creating a node search packet to

search for a new service node (figure 4a, abstract, column 1 lines 64-67, column 2 lines 24-26, column 4 lines 48-56, column 5 lines 56-67); transmitting the node search packet to a search packet reception node having and address stored in the storing (figure 4a, abstract, column 1 lines 28-31, column 4 lines 4-8 lines 48-56, column 5 lines 56-67); receiving the node notice packet from the search packet reception node; receiving the node notice packet from a peripheral node which receives a node notice request packet from the search packet reception node (figure 8, abstract, column 1 lines 58-67, column 2 lines 1-9, lines 18-35, column 4 lines 4-13), and address of the peripheral node not being stored in he node storage unit (column 4 lines 4-13); detecting the new service node based on the node notice packet returned from the peripheral node (abstract, column 2 lines 5-17, lines 31-35); updating the addresses based on the detected new service node (figure 7, column 6 lines 13-17 lines 21-32). However, Okanoue does not specifically disclose transmitting to the detected new service node, by the search node, data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the new detected service node.

Iyer et al. show and disclose determining a dynamic hop count and latency between two nodes across a network in a computer environment and transmitting to the detected new service node, by the search node, data for investigating node information including a request for a delay value and a number of hops in a packet transmission between the search node and the new detected service node (abstract, column 1 lines 65-67, column 2 lines 1-5 lines 9-27).

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate the teachings of Iyer et al. into the system of Okanoue for the purpose of determining the number of hops and latency between two nodes.

b) Consider claim 20, and as applied to claim 16 above, Okanoue as modified by Iyer et al. clearly show and disclose, the method of claim 16, wherein the updating step comprises updating the addresses to include an address of the new service node (Okanoue; figure 7, column 6 lines 13-17 lines 21-32).

Response to Arguments

 Applicant's arguments filed 23FEB2009 have been fully considered but they are not persuasive.

Applicant argues that "The '861 patent does not disclose that the address of the destination node is not stored in the originating node."

The Examiner respectfully disagrees; Okanoue (*861) discloses the claimed invention except for whether or not the address of the destination node is stored in the originating node. It would have been obvious to one of ordinary skill in the art at the time the invention was made to not store the address of the destination node in the originating node, since it has been held that omission of an element and its function in a combination where the element is not desired involves only routine skill in the art. See Ex parte Wu, 10 USPQ 2031 (Bd. Pat. App. & Inter. 1989). (Claims at issue were directed to a method for inhibiting corrosion on metal surfaces using a composition consisting of epoxy resin, petroleum sulfonate, and hydrocarbon diluent. The claims were rejected over a primary reference which disclosed an anticorrosion composition of epoxy resin, hydrocarbon diluent, and polybasic acid salts wherein said salts were taught to be beneficial when employed in a freshwater environment, in view of secondary references which clearly suggested the addition of petroleum sulfonate to corrosion inhibiting compositions. The Board affirmed the rejection, holding that it would have been obvious to omit the polybasic acid salts of the primary reference where the

function attributed to such salt is not desired or required, such as in compositions for providing corrosion resistance in environments which do not encounter fresh water.). See also In re Larson, 340 F.2d 965, 144 USPQ 347 (CCPA 1965) (Omission of additional framework and axle which served to increase the cargo carrying capacity of prior art mobile fluid carrying unit would have been obvious if this feature was not desired.); and In re Kuble, 526 F.2d 553, 188 USPQ 7 (CCPA 1975) (deleting a prior art switch member and thereby eliminating its function was an obvious expedient).

While Okanoue does not specifically disclose that the address of the destination node is not stored, neither does it disclose that it is stored. In either case the feature of not storing/storing the address is not functionally limiting (i.e. the system would function the same in either case) to transmitting the node notice packet from the peripheral node to the search node, in response to the node notice request packet.

Applicant argues that "...the '861 source node, search node N1, and destination node, do not correspond to the claimed "search packet reception node," "search node," and "peripheral node," respectively, as asserted in the Office Action."

The Examiner respectfully disagrees; the elements disclosed in Okanoue ('861) were clearly mapped to the claimed elements in the previous Office Action(s). Furthermore, if the function of the elements as disclosed by the reference perform the function of the claimed elements based on the function of the elements as disclosed in the reference they are considered functionally the same regardless of the differences in what they have been named.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - ➤ US 6,182,136 B1
 - ➤ US 6,185,611 B1
 - ➤ US 2001/0002473 A1
 - ➤ US 6,286,047 B1
 - ➤ US 6,336,138 B1
 - ➤ US 7,475,145 B2

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL C. MURRAY whose telephone number is 571-270-1773. The examiner can normally be reached on Monday - Friday 0800-1700 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger can be reached on (571)-272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DCM/ Examiner, Art Unit 2443

/George C Neurauter, Jr./ Primary Examiner, Art Unit 2443